

510(k) Summary

JUN - 1 2007

Date Prepared:	April 12, 2007
Submitter's Name:	Calgary Scientific, Inc.
Submitter's Address:	1210 20 th Ave. SE, Calgary, Alberta, Canada T2G 1M8
Submitter's Phone:	403.270.7159
Submitter's Fax:	403.668.1689
Contact:	Pierre Lemire, President & Chief Operations Officer
Proprietary Name:	ResolutionMD™ Cardiac Product Family
Common Name:	Software PACS
Classification:	892.2050 Picture archiving and communications system, Product Code LLZ, (Class II)
Substantially Equivalent to:	Tradename: Vitrea2, Version 3.8 Manufacturer: Vital Images, Inc. 510(k) Number: K052632

Device Description:

The ResolutionMD™ Cardiac Product Family is a software based Picture Archiving and Communication System (PACS) used with general purpose computing hardware for the display and 3D visualization of medical image data. It provides for communication, storage, processing, rendering, and display of DICOM 3.0 compliant image data derived from various sources including CT and MRI. The ResolutionMD™ software takes advantage of dedicated graphics hardware to speed the creation 3D rendered images.

The ResolutionMD™ Cardiac Product Family is available in a Microsoft Windows version and in a Macintosh OS version. Both versions offer similar functionality. Available functions include DICOM communication, display of 2D images in original planes, computation and display of rendered 3D images and maximal intensity projection (MIP) images, 2D and 3D image measurements, calcium scoring, and coronary artery analysis. The user controls these functions with a system of interactive menus and tools.

A hazard analysis has been conducted and the level of concern has been classified as minor. The ResolutionMD™ Cardiac Product Family software will be extensively tested on supported platforms by members of the development and quality control team prior to beta testing. Beta testing by trained cardiology professionals and potential customers will be completed prior to product release. The release version of the software will be required to pass all tests considered critical in terms of patient safety and demonstrate an overall acceptable performance for release as determined by the predefined release criteria.

Substantial Equivalence Comparisons to Predicate Device:

Feature	ResolutionMD™	Vital Vitrea2™
Computer Platform	Windows OS or Mac OS	Windows OS
DICOM compliance	DICOM 3.0	same
2D Imaging	2D image viewer with interactive user controls	same
3D Imaging	3D volume rendering with interactive controls	same
Measurement	2D measurement tools	same
Maximum Intensity Projection (MIP)	MIP with interactive controls and clipping planes	same
Prescription Use	Yes	same
Intended Users	Trained professionals	same
Calcium Score	Agatston and volumetric scores	same
Artery detection	Automated and manual centerline detection	same
Curved multi-planar reconstruction	Curved MPR of artery centerline with cross-sectional images	same
Reporting	Report summary generation from Cardiac analysis	same

Intended Use:

The ResolutionMD™ Cardiac Product Family is a software based Picture Archiving and Communication System (PACS) used with general purpose computing hardware for the display and 3D visualization of medical image data. It provides for communication, storage, processing, rendering, and display of DICOM 3.0 compliant image data derived from various sources including CT and MRI.

The ResolutionMD™ Cardiac Product Family is intended for use as a diagnostic, review, and analysis tool by trained professionals such as physicians, technologists, and nurses. When interpreted by a trained physician, reviewed images may be used as an element for diagnosis. It is the user's responsibility to ensure that the software is installed on appropriate hardware and that image quality is suitable for the clinical application.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration
9200 Corporate Blvd.
Rockville MD 20850

JUN - 1 2007

Mr. Pierre Lemire
President & Chief Operations Officer
Calgary Scientific, Inc.
Suite 208 - 1210 20th Avenue., SE
Calgary, Alberta
CANADA T2G 1M8

Re: K071086
Trade/Device Name: ResolutionMD™ Cardiac Product Family
Regulation Number: 21 CFR §892.2050
Regulation Name: Picture archiving and communications system
Regulatory Class: II
Product Code: LLZ
Dated: April 12, 2007
Received: April 17, 2007

Dear Mr. Lemire:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.



Protecting and Promoting Public Health

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

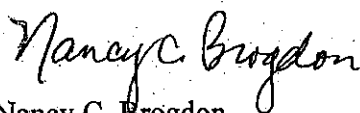
This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

21 CFR 876.xxxx	(Gastroenterology/Renal/Urology)	240-276-0115
21 CFR 884.xxxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 892.xxxx	(Radiology)	240-276-0120
Other		240-276-0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>

Sincerely yours,



Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal, and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

Indications for Use

Applicant: Calgary Scientific, Inc., Suite 208 – 1210 20th Ave. SE, Calgary, Alberta,
CANADA T2G 1M8

510(k) Number (if known): _____

Device Name: ResolutionMD™ Cardiac Product Family

Indications for Use:

The ResolutionMD™ Cardiac Product Family is a software based Picture Archiving and Communication System (PACS) used with general purpose computing hardware for the display and 3D visualization of medical image data. It provides for communication, storage, processing, rendering, and display of DICOM 3.0 compliant image data derived from various sources including CT and MRI.

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Lossy compressed mammographic images and digitized film screen images must not be reviewed for primary image interpretations. Mammographic images may only be interpreted using an FDA approved monitor that offers at least 5 Mpixel resolution and meets other technical specifications reviewed and accepted by FDA.

Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF
NEEDED

Concurrence of CDRH, Office of Device Evaluation (ODE)


(Division Sign Off)

Division of Reproductive, Abdominal,

and General Health Devices

510(k) Number

Confidential

 K071086